## SEQUENCE LISTING

(i)	APPLICANT:	Dong, Fang	
		Lyamichev, Victor	I
		Prudent, James R.	

- (ii) TITLE OF INVENTION: TARGET-DEPENDENT REACTIONS USING STRUCTURE-BRIDGING OLIGONUCLEOTIDES
- (iii) NUMBER OF SEQUENCES: 123
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: MEDLEN & CARROLL, LLP
  - (B) STREET: 220 Montgomery Street, Suite 2200
  - (C) CITY: San Francisco
  - (D) STATE: CA
  - (E) COUNTRY: USA
  - (F) ZIP: 94104
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk

  - (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US (B) FILING DATE:

  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:

  - (A) NAME: MacKnight, Kamrin T.(B) REGISTRATION NUMBER: 38,230
  - (C) REFERENCE/DOCKET NUMBER: FORS-03345
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: (415) 705-8410
    - (B) TELEFAX: (415) 397-8338
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 391 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "DNA"
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

60	GGTCGTATGG	GCGGCATCGA	GCGATCACCA	CGGTAAGGAC	GCACCGGAAC	AGCTCGTATG
120	CTACGAGTGG	TCCTGTACGG	TTCCTCGAGA	GGACAACAGT	CGACGAAATG	ACGAACACCC
180	CGCCGGTGCC	CCAAGGACGG	CAATACACCG	TGGCGCTTGG	AGAGCCCTGC	GAGCTGACGA
240	GGCCACTGAC	CGACGATGCT	GGGCGCTCCC	CGGCGGGCCA	CGGACCCGTT	GGCACCATCC
300	GGAACACCCC	GTCGCTGGCT	CGGATCACGC	GATCTATGAG	GGGTGGATCC	CTCTCGCTGC

	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
5	(2) INFORMATION FOR SEQ ID NO:2:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
20	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
25	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
25	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
*## #=	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
30	CCCGTTGCGA GATACCTTGG GCCGCTGGTC C	391
121	(2) INFORMATION FOR SEQ ID NO:3:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 391 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<b>4</b> 0	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
45	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA GCGGCATCGA GGTCGTATGG	60
	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
50	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
50	GGCACCATCC CGGACCCGTT CGGCGGCCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
55	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGCTGGTC C	391
60	(2) INFORMATION FOR SEQ ID NO:4:	
OU	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 391 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
65	(C) BIRANDEDIA. BIRGE	

	(11) MOLECULE TYPE: Other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
5	AGCTCGTATG GCACCGGAAC CGGTAAGGAC GCGATCACCA CCGGCATCGA GGTCGTATGG	60
	ACGAACACCC CGACGAAATG GGACAACAGT TTCCTCGAGA TCCTGTACGG CTACGAGTGG	120
10	GAGCTGACGA AGAGCCCTGC TGGCGCTTGG CAATACACCG CCAAGGACGG CGCCGGTGCC	180
	GGCACCATCC CGGACCCGTT CGGCGGGCCA GGGCGCTCCC CGACGATGCT GGCCACTGAC	240
15	CTCTCGCTGC GGGTGGATCC GATCTATGAG CGGATCACGC GTCGCTGGCT GGAACACCCC	300
15	GAGGAATTGG CCGACGAGTT CGCCAAGGCC TGGTACAAGC TGATCCACCG AGACATGGGT	360
	CCCGTTGCGA GATACCTTGG GCCGGTGGTC C	391
20	(2) INFORMATION FOR SEQ ID NO:5:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
30	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
7) 71	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
um la	AGCTCGTATG GCACCGGAAC	20
35	(2) INFORMATION FOR SEQ ID NO:6:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
[] [] 45	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
43	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
	TTGACCTCCC ACCCGACTTG	20
50	(2) INFORMATION FOR SEQ ID NO:7:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
00	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
	AGCTCGTATG GCACCGGAAC C	2:

	(2) INFORMATION FOR SEQ ID NO:8:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
15	GGACCAGCGG CCCAAGGTAT	20
13	(2) INFORMATION FOR SEQ ID NO:9:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 22 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
'm f '11	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
130	GGACCACCGG CCCAAGGTAT CT	22
	(2) INFORMATION FOR SEQ ID NO:10:	
35 8	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
-40	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
<b>[]</b> 45	TTTTTGCCGC TGGTGATCGC G	21
7.5	(2) INFORMATION FOR SEQ ID NO:11:	
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 12 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
60	GGAGAGCCAT AG	12

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:12: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: TGGTCTGCGG A 11 15 (2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" ij. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: GGACGACCGG G 11 (2) INFORMATION FOR SEQ ID NO:14: Ţ. (i) SEQUENCE CHARACTERISTICS: as la (A) LENGTH: 11 base pairs 135 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid = 40 (A) DESCRIPTION: /desc = "DNA" Ŋ. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14: GGAGATTTGG G 11 45 (2) INFORMATION FOR SEQ ID NO:15: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

55

60

CCGCGAGACT G

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA"
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

- 165 -

11

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:16: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16: CTAGCCGAGT AG 12 15 (2) INFORMATION FOR SEO ID NO:17: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17: TGTTGGGTCG C 11 (2) INFORMATION FOR SEQ ID NO:18: (i) SEQUENCE CHARACTERISTICS: ļ<sub>sa</sub> l (A) LENGTH: 11 base pairs (B) TYPE: nucleic acid 35 (C) STRANDEDNESS: single (D) TOPOLOGY: linear 41 (ii) MOLECULE TYPE: other nucleic acid 40 (A) DESCRIPTION: /desc = "DNA" T (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18: CCGCGAGACC G 11 (2) INFORMATION FOR SEQ ID NO:19: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 base pairs 50

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid 55 (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

CCGCAAGACC G 11 60

	(2) INFORMATION FOR SEQ ID NO:20:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
15	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	6
13	CCAGGACCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TTGCCAGGAC GACCGGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	180
20	TGCCCCCGCA AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
25	(2) INFORMATION FOR SEQ ID NO:21:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 286 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
135	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTGCAGCCT	60
<b>40</b>	CCAGGTCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
Tage Tage	TTGCCAGGAC GACCGGGTCC TTTCTTGGAT CAACCCGCTC AATGCCTGGA GATTTGGGCG	180
	TGCCCCCGCG AGACTGCTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
45	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCA	286
	(2) INFORMATION FOR SEQ ID NO:22:	
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
60	GATTCTGTCT TCACGCAGAA AGCGTCTAGC CATGGCGTTA GTATGAGTGT CGTACAGCCT	60
	CCAGGCCCCC CCCTCCCGGG AGAGCCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
65	TTGCCGGGAA GACTGGGTCC TTTCTTGGAT AAACCCACTC TATGCCCGGC CATTTGGGCG	180

	TGCCCCCGCA AGACTGCTAG CCGAGTAGCG TTGGGTTGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTA CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
5	(2) INFORMATION FOR SEQ ID NO:23:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 289 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
	GATTCTGTCT TCACGCAGAA AGCGCCTAGC CATGGCGTTA GTACGAGTGT CGTGCAGCCT	60
20	CCAGGACCCC CCCTCCCGGG AGAACCATAG TGGTCTGCGG AACCGGTGAG TACACCGGAA	120
	TCGCTGGGGT GACCGGGTCC TTTCTTGGAG CAACCCGCTC AATACCCAGA AATTTGGGCG	180
25	TGCCCCCGCG AGATCACTAG CCGAGTAGTG TTGGGTCGCG AAAGGCCTTG TGGTACTGCC	240
	TGATAGGGTG CTTGCGAGTG CCCCGGGAGG TCTCGTAGAC CGTGCAATC	289
: :	(2) INFORMATION FOR SEQ ID NO:24:	
30 35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> <li>(ii) MOLECULE TYPE: other nucleic acid</li> </ul>	
and the	(A) DESCRIPTION: /desc = "DNA"	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
	CTCGCAAGCA CCCTATCA	18
	(2) INFORMATION FOR SEQ ID NO:25:	
<b>4</b> 5 <b>5</b> 0	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
Şū	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
	GCAGAAAGCG TCTAGCCATG G	21
	(2) INFORMATION FOR SEQ ID NO:26:	
60 65	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
3	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GACCCCCCT	6(
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
10	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
15	CGAG	244
1,7	(2) INFORMATION FOR SEQ ID NO:27:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
30	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTG CAGCCTCCAG GTCCCCCCT	60
7)	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CAGGACGACC	120
<b>]</b> 1	GGGTCCTTTC TTGGATCAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCGAGAC	180
013 <i>5</i>	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
; x ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	CGAG	244
<u>40</u>	(2) INFORMATION FOR SEQ ID NO:28:	
15 45	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
	GCAGAAAGCG TCTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
55	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTGC CGGGAAGACT	120
23	GGGTCCTTTC TTGGATAAAC CCACTCTATG CCCGGCCATT TGGGCGTGCC CCCGCAAGAC	180
	TGCTAGCCGA GTAGCGTTGG GTTGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
60	CGAG	244

	(2) INFORMATION FOR SEQ ID NO:29:	
5	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 244 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
15	GCAGAAAGCG CCTAGCCATG GCGTTAGTAC GAGTGTCGTG CAGCCTCCAG GACCCCCCT	6
13	CCCGGGAGAA CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATCGC TGGGGTGACC	120
	GGGTCCTTTC TTGGAGCAAC CCGCTCAATA CCCAGAAATT TGGGCGTGCC CCCGCGAGAT	180
20	CACTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CGAG	244
25	(2) INFORMATION FOR SEQ ID NO:30:	
30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 216 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
20 <u>1</u> 20 <del>2</del>	CAGAAAGGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG CCCCCCCTC	60
`.  140	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC GGGAAGACTG	120
40	GGTCCTTTCT TGGATAAACC CACTCTATGC CCGGCCATTT GGGCGTGCCC CCGCAAGACT	180
	GCTAGCCGAG TAGCGTTGGG TTGCGAAAGG CCTTGT	216
45	(2) INFORMATION FOR SEQ ID NO:31:	
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 244 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
55	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
	CAGAAAGGGT TTAGCCATGG CGTTAGTATG AGTGTCGTGC AGCCTCCAGG ACCCCCCTC	60
60	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAAAC CCGCTCAATG CCTGGAGATT TGGGCGTGCC CCCGCAAGAC	180

	TGCTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG	240
	CAAG	244
5	(2) INFORMATION FOR SEQ ID NO:32:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 239 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
	GCAGAAAGGT TTAGCCATGG GTTAGTATGA GTGTCGTGCA GCCTCCAGGA CCCCCCCTCC	60
20	CGGGAGAGCC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG	120
	GTCCTTTCTT GGATTAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG	180
25	CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC	239
25	(2) INFORMATION FOR SEQ ID NO:33:	
1 min 1 min 30	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 240 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<sup>3</sup> 35	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
40 []]	GCAGAAAGGT TTAGCCATGG GGTTAGTATG AGTGTCGTAC AGCCTCCAGG ACCCCCCTC	60
	CCGGGAGAGC CATAGTGGTC TGCGGAACCG GTGAGTACAC CGGAATTGCC AGGACGACCG	120
	GGTCCTTTCT TGGATAAACC CGCTCAATGC CTGGAGATTT GGGCGTGCCC CCGCAAGACT	180
45	GCTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC	240
	(2) INFORMATION FOR SEQ ID NO:34:	
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 240 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
60	GCAGAAAGGG TTTAGCCATG GCGTTAGTAT GAGTGTCGTA CAGCCTCCAG GCCCCCCCT	60
	CCCGGGAGAG CCATAGTGGT CTGCGGAACC GGTGAGTACA CCGGAATTAC CGGAAAGACT	120

GGGTCCTTTC TTGGATAAAC CCACTCTATG TCCGGTCATT TGGGCGTGCC CCCGCAAGAC 180 TGCTAGCCGA GTAGCGTTGG GTTGCAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC 240 5 (2) INFORMATION FOR SEQ ID NO:35: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid 10 (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35: CAGAAAGGGT TTAGCCATGG GGTTAGTACG AGTGTCGTGC AGCCTCCAGG CCCCCCCTC 60 20 ccgggagagc catagtggtc tgcggaaccg gtgagtacac cggaatcgct ggggtgaccg 120 GGTCCTTTCT TGGAGCAACC CGCTCAATAC CCAGAAATTT GGGCGTGCCC CCGCGAGATC 180 ACTAGCCGAG TAGTGTTGGG TCGCGAAAGG CCTTGTGGTA CTGCCTGATA GGGTGCTTGC 240 (2) INFORMATION FOR SEQ ID NO:36: 41 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs 30 (B) TYPE: nucleic acid (C) STRANDEDNESS: double Ül (D) TOPOLOGY: linear an h 35 (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" Ħ (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36: 'n. AGAAAGCGTT TAGCCATGGC GTTAGTATGA GTGTTGTGCA GCCTCCAGGA CCCCCCCTCC 60 l= k ŢŢ. CGGGAGACC ATAGTGGTCT GCGGAACCGG TGAGTACACC GGAATTGCCA GGACGACCGG 120 GTCCTTTCTT GGATCAACCC GCTCAATGCC TGGAGATTTG GGCGTGCCCC CGCAAGACTG 180 45 CTAGCCGAGT AGTGTTGGGT CGCGAAAGGC CTTGTGGTAC TGCCTGATAG GGTGCTTGC 239 (2) INFORMATION FOR SEQ ID NO:37: (i) SEQUENCE CHARACTERISTICS: 50 (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 55 (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37: 60 GTTTAGCCAT GGCGTTAGTA TGAGTGTCGT GCAGCCTCCA GGACCCCCCC TCCCGGGAGA 60 GCCATAGTGG TCTGCGGAAC CGGTGAGTAC ACCGGAATTG CCAGGACGAC CGGGTCCTTT 120

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CTTGGATCAA CCCGCTCAAT GCCTGGAGAT TTGGGCGTGC CCCCGCGAGA CCGCTAGCCG 180 AGTAGTGTTG GGTCGCGAAA GGCCTTGTGG TACTGCCTGA TAGGGTGCTT GC 232 5 (2) INFORMATION FOR SEQ ID NO:38: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 240 base pairs (B) TYPE: nucleic acid 10 (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA" 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38: GCAGAAAGCG TTTAGCCATG GCGTTAGTAC GAGTGTCGTG CAGCCTCCAG GACCCCCCT 60 20 cccggagag ccatagtggt ctgcggaacc ggtgagtaca ccggaatcgc tggggtgacc 120 GGGTCCTTTC TTGGAACAAC CCGCTCAATA CCCAGAAATT TGGGCGTGCC CCCGCGAGAT 180 CACTAGCCGA GTAGTGTTGG GTCGCGAAAG GCCTTGTGGT ACTGCCTGAT AGGGTGCTTG 240 (2) INFORMATION FOR SEQ ID NO:39: :44 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs 30 (B) TYPE: nucleic acid (C) STRANDEDNESS: single T1 (D) TOPOLOGY: linear en is (ii) MOLECULE TYPE: other nucleic acid 35 (A) DESCRIPTION: /desc = "DNA" ΞE [ ] [ ] (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39: 1<sub>42</sub> # - k TGCTCTCTGG TCGCTGTCTG AAAGACAGCG TGGTCTCTCG TAAT 44 <u>ن</u> 40 (2) INFORMATION FOR SEO ID NO:40: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs 45 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 50 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40: TGCTCTCTGG TCGCTGTCTG AAAGACTCCG TGGTCTCTCG TAAT 44 55 (2) INFORMATION FOR SEQ ID NO:41: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid 60 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 65 (A) DESCRIPTION: /desc = "DNA"

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
	TGCTCTCTGG TCGCTGTCTG AATTTTTTTT TGGTCTCTCG TAAT	44
5	(2) INFORMATION FOR SEQ ID NO:42:	
10	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 14 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
15	<pre>(ii) MOLECULE TYPE: other nucleic acid       (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
	AGACCATTAC CAGA	1.4
20	(2) INFORMATION FOR SEQ ID NO:43:	
25	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
30	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
les b	GAGACCATTA CCAGAG	16
<sup>3</sup> 35	(2) INFORMATION FOR SEQ ID NO:44:	
1340 1340	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	·
45	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
73	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
	AGAGACCATT ACCAGAGA	18
50	(2) INFORMATION FOR SEQ ID NO:45:	
55	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	
	AGAGACCATT ACAAGCGA	18

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(2) INFORMATION FOR SEQ ID NO:46: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid 5 (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46: AGCGAACATT ACCAGAGA 1.8 15 (2) INFORMATION FOR SEQ ID NO:47: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 20 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" THE WAY WAS (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47: AGAGACCAAC CAGAGA 16 30 (2) INFORMATION FOR SEQ ID NO:48: III. ant br (i) SEQUENCE CHARACTERISTICS: ņ (A) LENGTH: 9 base pairs 35 (B) TYPE: nucleic acid :2 (C) STRANDEDNESS: single
(D) TOPOLOGY: linear 123 3 (ii) MOLECULE TYPE: other nucleic acid 40 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48: 9 AGAGACCAT 45 (2) INFORMATION FOR SEQ ID NO:49: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 55 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49: TACCAGAGA

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		(2)	INFO	RMATION FOR SEQ ID NO:50:	
	5		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	10		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50:	
	15	ACC	AGAGA	GC C	10
	13	(2)	INFO	RMATION FOR SEQ ID NO:51:	
	20		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
1 m 2	25		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
ig.			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:51:	
The state of the s	20	TCAC	BACAG	CG	10
	30	(2)	INFO	RMATION FOR SEQ ID NO:52:	
	35		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
A M AM	40		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:52:	
;= 1 ;= 1		AGTO	GTCT	GC GGAACCGG	18
	45	(2)	INFO	RMATION FOR SEQ ID NO:53:	
	50		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	55		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
			(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:53:	
(	60	AGT	TCGT:	TT GGAACCGG	18

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	(2) INFORMATION FOR SEQ ID NO:54:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
15	AGTGTCGTAA GGAACCGG	18
13	(2) INFORMATION FOR SEQ ID NO:55:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
30	AGTGTCGTCA GGAACCGG	18
	(2) INFORMATION FOR SEQ ID NO:56:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 16 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
45	AGTGTCGTGG AACCGG	16
	(2) INFORMATION FOR SEQ ID NO:57:	
50	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
60	AGTGTCGTTT GGATCCGG	18
UU		

	(2)	INFO	RMATION FOR SEQ ID NO:58:	
	5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
10	)	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:58:	
1:		GACGT:	TT GGAACCGG	18
1.	(2)	INFO	RMATION FOR SEQ ID NO:59:	
20	0	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 8 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
<b></b> 2:	5	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
A P		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:59:	
3	GGA	ACCGG		8
3 ·	(2)	INFO	RMATION FOR SEQ ID NO:60:	
2 3 2 3	5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
<b>4</b>	0	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
120 E		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:60:	
<u>_</u>		TGTGA	GT ACACCGGAAT	20
4		INFO	RMATION FOR SEQ ID NO:61:	
5	0	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 14 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
5	5	<b>(</b> ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:61:	
6	0 <b>T</b> TT	TGTGA	GT ACAC	14

	(2) INFO	DRMATION FOR SEQ ID NO:62:	
5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:62:	
1.5	TGAGTACA	ACC GGAAT	15
15	(2) INFO	DRMATION FOR SEQ ID NO:63:	
20	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<b>2</b> 5	<b>(ii</b> )	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
THE STATE OF THE S	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:63:	
20	ATTCCGGT	GT ACTCACCGGT TCCAAACGAC ACT	33
	(2) INFO	RMATION FOR SEQ ID NO:64:	
35	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
40 []	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:64:	
45	CAGCCTCC	CC TTCTTGGA	18
73	(2) INFO	RMATION FOR SEQ ID NO:65:	
50	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
55	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:65:	
60	AGTGTCGT	TT GGAATTAATT	20

	(2) INFORMATION FOR SEQ ID NO:66:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
15	GCGAAAGGCC TTGTGG	16
15	(2) INFORMATION FOR SEQ ID NO:67:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
30	ACAGCCTCCA GGACCC	16
71 3V	(2) INFORMATION FOR SEQ ID NO:68:	
35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
40 (1)	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
<u></u>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
<b>[]</b>	GCAGCCTCCA GGACCC	16
45	(2) INFORMATION FOR SEQ ID NO:69:	
50	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 193 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
55	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
60	CGTGGAGGCG ATCACACCGC AGACGTTGAT CAACATCCGG CCGGTGGTCG CCGCGATCAA	60
00	GGAGTTCTTC GGCACCAGCC AGCTGAGCCA ATTCATGGAC CAGAACAACC CGCTGTCGGG	120
	GTTGACCCAC AAGCGCCGAC TGTCGGCGCT GGGGCCCGGC GGTCTGTCAC GTGAGCGTGC	180
65	CGGGCTGGAG GTC	193

	(2) INFORMATION FOR SEQ ID NO:70:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 26 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
15	CGTGGAGGCG ATCACACCGC AGACGT	26
13	(2) INFORMATION FOR SEQ ID NO:71:	
20	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 25 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
4.) e.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
30 miles   100 mil	GACCTCCAGC CCGGCACGCT CACGT	25
	(2) INFORMATION FOR SEQ ID NO:72:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 128 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
45	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
43	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	ACGTGAGC	128
50	(2) INFORMATION FOR SEQ ID NO:73:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
	CGCCGCGATC AAGGAGTTCT	20

	(2) INFORMATION FOR SEQ ID NO:74:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
10	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
15	GCTCACGTGA CAGACCGCCG	20
13	(2) INFORMATION FOR SEQ ID NO:75:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
5 h 2 f	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	
25 25 26 27 27 27	TGACAGACCG CCGGGCCC	18
11	(2) INFORMATION FOR SEQ ID NO:76:	
31 35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
40	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:	
[]	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
45	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	A.	121
50	(2) INFORMATION FOR SEQ ID NO:77:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
	AGACAGACCG CCGGGCCC	18

	(2) INFORMATION FOR SEQ ID NO:78:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 121 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
1.5	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGTC	120
	T	121
20	(2) INFORMATION FOR SEQ ID NO:79:	
<b>25</b>	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
30	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
MT.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	
lank .	ACAGACCGCC GGGCCCCA	1.8
35	(2) INFORMATION FOR SEQ ID NO:80:	
40	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 119 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:	
	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
50	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGT	119
	(2) INFORMATION FOR SEQ ID NO:81:	
55	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:	
65	CCAGACCGCC GGGCCCCA	18

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	(2) INFORMATION FOR SEQ ID NO:82:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 119 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTGG	119
	(2) INFORMATION FOR SEQ ID NO:83:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
- - - - - - - - - - - - - - - - - - -	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
150 11	CAGACCGCCG GGCCCCAG	18
ea is	(2) INFORMATION FOR SEQ ID NO:84:	
35	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 118 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
.40 	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTG	118
50	(2) INFORMATION FOR SEQ ID NO:85:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
	GAGACCGCCG GGCCCCAG	18

	(2) INFORMATION FOR SEQ ID NO:86:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 118 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGGTCTC	118
	(2) INFORMATION FOR SEQ ID NO:87:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	
(11 - v	CCGCCGGGCC CCAGCGCCGA	20
in b	(2) INFORMATION FOR SEQ ID NO:88:	
35 - 40	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
140 11	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGG	114
50	(2) INFORMATION FOR SEQ ID NO:89:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:	
	GCGCCGGGCC CCAGCGCCGA	20

	(2) INFORMATION FOR SEQ ID NO:90:	
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCGC	114
	(2) INFORMATION FOR SEQ ID NO:91:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
25 25 34 54 54 54 54 54 54 54 54 54 54 54 54 54	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
<b>1</b> 30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:	
T E	CGGCCGGGCC CCAGCGCCGA	20
91 21	(2) INFORMATION FOR SEQ ID NO:92:	
35 240	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 114 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG GCCG	114
50	(2) INFORMATION FOR SEQ ID NO:93:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"  (xi) SEQUENCE DESCRIPTION, SEQ ID NO.93.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	10
	CGGGCCCCAG CGCCGACA	18

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	(2) INFORMATION FOR SEQ ID NO:94:	
5	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 110 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:	
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCG	Llo
	(2) INFORMATION FOR SEQ ID NO:95:	
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
##25 ###30	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
= 1	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:	
ijou Ji	AGGGCCCCAG CGCCGACA	18
en la	(2) INFORMATION FOR SEQ ID NO:96:	
35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 110 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
40	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:	
73	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGGCCCT	10
50	(2) INFORMATION FOR SEQ ID NO:97:	
55	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
60	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:	
	CCCCAGCGCC GACAGTCG	18

	(2) INFORMATION FOR SEQ ID NO:98:				
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 106 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>				
10	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:				
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60			
13	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGG	106			
	(2) INFORMATION FOR SEQ ID NO:99:				
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>				
125 11	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"</pre>				
# <b>#</b>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:				
30	TCCCAGCGCC GACAGTCG				
2 b	(2) INFORMATION FOR SEQ ID NO:100:				
35	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 106 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear				
140	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"				
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:				
73	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60			
	CCCGCTGTCG GGGTTGACCC ACAAGCGCCG ACTGTCGGCG CTGGGA	106			
50	(2) INFORMATION FOR SEQ ID NO:101:				
55	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear				
60	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA"  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:</pre>				
		24			
	CGCTTGTGGG TCAACCCCGA	20			

	(2) INFORMATION FOR SEQ ID NO:102:					
5	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 87 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>					
10	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>					
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:					
15	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60				
12	CCCGCTGTCG GGGTTGACCC ACAAGCG	87				
	(2) INFORMATION FOR SEQ ID NO:103:					
20	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>					
25 4 1 3 3 3	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"					
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:					
1130 21	AGCTTGTGGG TCAACCCCGA					
21 b	(2) INFORMATION FOR SEQ ID NO:104:					
35 []	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 87 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>					
140 11	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA"</pre>					
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:					
43	CGCCGCGATC AAGGAGTTCT TCGGCACCAG CCAGCTGAGC CAATTCATGG ACCAGAACAA	60				
	CCCGCTGTCG GGGTTGACCC ACAAGCT	87				
50	(2) INFORMATION FOR SEQ ID NO:105;					
55	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear					
60	(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"					
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:	16				
	GTGACAGAGT TGTTCT					

	(2) INFORMATION FOR SEQ ID NO:106:			
5		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
10		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:106:	
15	GTG	ACAGA'	TT GTTGTTCT	18
13	(2)	INFO	RMATION FOR SEQ ID NO:107:	
20		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
25		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:107:	
30	GTG	ACAGA	GC GTTGTTCT	18
7, 20	(2)	INFO	RMATION FOR SEQ ID NO:108:	
35 Here 100		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
<b>4</b> 0		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:108:	
45	GTG	ACAGA	AA GTTGTTCT	18
.5	(2)	INFO	RMATION FOR SEQ ID NO:109:	
50		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
55		(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
60	pq		FEATURE: (A) NAME/KEY: misc_difference (B) LOCATION: replace(910, "") (D) OTHER INFORMATION: /note= "The residues at these ons are spacers with abasic sugar labels."	
		(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:109:	
65	GTG	CAGA	NN GTTGTTCT	18

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	(2) INFO	ORMATION FOR SEQ ID NO:110:	
5	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
10	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:110:	
15	TCACGTGA	GC GTCCATGA	18
13	(2) INFO	RMATION FOR SEQ ID NO:111:	
20	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
25	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:111:	
30	CAGACCGC	GC ACAGCGGG.	18
ji .	(2) INFO	RMATION FOR SEQ ID NO:112:	
35 35	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 17 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
140	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:112:	
45	GCTCACGA'	TA CCCCGAC	17
73	(2) INFO	RMATION FOR SEQ ID NO:113:	
50	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
55	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:113:	
60	TGCTCACG	AT ACCCCGAC	18

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:114: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114: 18 CGCCGGGCGC TCAACCCC 15 (2) INFORMATION FOR SEQ ID NO:115: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 20 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115: 18 ACAGTCGGGC GGTTGTTC **30** (2) INFORMATION FOR SEQ ID NO:116: IJ1 az la (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid D) ä 35 (C) STRANDEDNESS: single C. (D) TOPOLOGY: linear 4 (ii) MOLECULE TYPE: other nucleic acid j. 40 (A) DESCRIPTION: /desc = "DNA" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116: 18 CGGGCCCCTA TGTGGGTC 45

(2) INFORMATION FOR SEQ ID NO:117:

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(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

(XI) BEQUENCE DESCRIPTION. BEQ ID NO.111.

CTCACGTGTA TCTGGTCC

18

WO 98/50403 PCT/US98/03194 (2) INFORMATION FOR SEQ ID NO:118:

16

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 5 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid 10 (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

TGACAGACGT TGTTCT 15 (2) INFORMATION FOR SEQ ID NO:119: (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: other nucleic acid 25 (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

CCCCAGCGGC GTTGTTCT 18

(2) INFORMATION FOR SEQ ID NO:120:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GTGTCGTTTG GAACCG 16 45

(2) INFORMATION FOR SEQ ID NO:121:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs 50 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid 55 (A) DESCRIPTION: /desc = "DNA"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

16 TGGGCGTTGC TTGTGG 60

(2) INFORMATION FOR SEQ ID NO:122:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 18 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:			
TTGGGCGTTG CTTGTGGT			
(2) INFORMATION FOR SEQ ID NO:123:			
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 13 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>			
<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA"</pre>			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:			
TCCTTGATCG CGG	13		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:  TTGGGCGTTG CTTGTGGT  (2) INFORMATION FOR SEQ ID NO:123:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA"  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:		